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File: DWPI

Nov 20, 1986

DERWENT-ACC-NO: 1986-318853

DERWENT-WEEK: 198648

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TITLE: Cloning of c-DNA for human von Willebrand Factor - to produce blood clotting Factor VIII R for treatment of coagulation disorders

INVENTOR: LIVINGSTON, D; LYNCHF, D

PATENT-ASSIGNEE:

ASSIGNEE

CODE

MELOY LABS INC

MELON

PRIORITY-DATA: 1985US-0734912 (May 16, 1985)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 8606745 A	November 20, 1986	E	044	
AU 8659005 A	December 4, 1986		000	
EP 222003 A	May 20, 1987	E	000	
EP 222003 A4	May 10, 1989		000	
ES 8800353 A	January 1, 1988		000	
JP 63500144 W	January 21, 1988		000	

DESIGNATED-STATES: AU JP AT BE CH DE GB IT LU NL SE AT BE CH DE FR GB IT LI LU NL SE

CITED-DOCUMENTS:11Jnl.Ref; 3.Jnl.Ref ; EP 169562 ; EP 197592 ; WO 8606096

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 8606745A	May 15, 1986	1986WO-US01051	
EP 222003A	May 15, 1986	1986EP-0903819	
EP 222003A4	May 15, 1986	1986EP-0903819	
ES 8800353A	May 16, 1986	1986ES-0555490	
JP63500144W	May 15, 1986	1986JP-0502984	

INT-CL (IPC): C12N 15/00; C12P 21/00; C12Q 1/68; G01N 33/53

ABSTRACTED-PUB-NO: WO 8606745A

BASIC-ABSTRACT:

A process for the cloning of human factor VIIIR or fragments in a self-replicating recombinant host system comprises (a) providing a heterogeneous mixt. of human factor VIIIR mRNA obtd. by extn. of total cellular RNA from human endothelial cell cultures and enriched by size fractionation, (b) preparing ds-cDNA complementary to the enriched mRNA in a mixt. comprising avain myeloblastosis virus reverse transcriptase and an oligo (dt)18 primer to form a first strand of cDNA, hydrolysing the RNA under alkaline conditions and forming a second strand of cDNA by hairpin loop priming and E.coli DNA polymerase I large subunit directed synthesis, (c)

^ ' incorporating the ds-cDNA into a vector and (d) identifying those vectors in which the ds-cDNA has been incorporated by in vitro transcription and translation of ds-cDNA fragments and detection of VIII translation prods. immunologically.

USE/ADVANTAGE - The process is used to produce blood clotting Factor VIIIIR which is used in the treatment of coagulation disorders such as von Willebrand's disease. Factor VIIIIR may be produced by direct expression in mature form without the necessity of cleaving away any extraneous polypeptide.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: CLONE DNA HUMAN FACTOR PRODUCE BLOOD CLOT FACTOR TREAT COAGULATE DISORDER

ADDL-INDEXING-TERMS:  
DEOXYRIBONUCLEIC ACID

DERWENT-CLASS: B04 D16

CPI-CODES: B04-B04A1; B04-B04D2; B12-H04; D05-H12;

CHEMICAL-CODES:

Chemical Indexing M1 \*C1\*  
Fragmentation Code  
M423 M710 M720 M903 N135 P815 Q233 V600 V613 V753  
V754

SECONDARY-ACC-NO:  
CPI Secondary Accession Numbers: C1986-138110